

Ph.D. Dominika Szadkowska, Eng.

CONTACT

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EDUCATION

Occupational titles and science degrees	Date (year)	Institution
Engineer of Wood technology	2009	Faculty of Wood Technology
Master engineer of Wood technology	2010	Warsaw University of Life Sciences - SGGW
Doctor of forest sciences	2021	Institute of Wood Sciences and Furniture, Warsaw University of Life Sciences - SGGW

PROFESSIONAL COMPETENCE

Position	Date (year)	Institution
Tutor	1 X 2018	Department of Wood Science and Wood Preservation Faculty of Wood Technology Warsaw University of Life Sciences - SGGW
Assistant professor	1 VII 2021	Department of Wood Science and Wood Preservation Institute of Wood Sciences and Furniture Warsaw University of Life Sciences - SGGW

DIDACTIC

- lectures: hydrothermal and plastic woodworking, inorganic chemistry, instrumental analysis and non-destructive testing of wood materials, instrumental wood testing methods

SCIENCE

Science research:

- chemical composition of wood
- enzymatic hydrolysis of wood
- testing of wood on gas chromatographs together with a pyrolyzer

Research projects:

- Miniatura 5 „Adsorption of selected heavy metals by selected wood species of domestic trees” , NCN DEC-2021/05/X/NZ9/01532
- Pasza Pro "Technologies of using by-products of agricultural crops processing", agreement no POIR.01.01.01-00-0224/19-00
- CROPTech „Intelligent systems for breeding and cultivation of wheat, maize and poplar for optimized biomass production, biofuels and modified wood” - research project in programme Biostrateg2 financed by National Centre of Research and Development (2016-2019).
- WOODTECH PBS1/A8/16/2013 research project of the 1st Competition of Applied Research Programme of the National Centre for Research and Development, "The use of poplar lines with increased growth of biomass and improved chemical composition of wood in paper and biofuel technology"

Cooperation:

- Technical University in Zvolen, Slovakia, Slovak University of Technology in Bratislava

RESEARCH OFFER AND EXPERT ASSESSMENTS

- assessment and analysis of the chemical composition of wood
- analysis of sugars for HPLC

- analysis of extracts or substances on GCMS
- adsorption of heavy metals by wood species

SELECTED SCIENCE PUBLICATIONS:

ORCID: 0000-0002-7993-4038

2023

Betlej I., Andres B., Krajweski K., Kiełtyka-Dadasiewicz A., **Szadkowska D.**, Zawadzki J., 2023:

2022: *Effect of Various Mentha sp. Extracts on the Growth of Trichoderma viride and Chaetomium globosum on Agar Medium and Pine Wood*, Diversity, 15, 2, 1-17, DOI:10.3390/d15020152, IF 3,031

2022

Antczak A., Szadkowski J., **Szadkowska D.**, Zawadzki J., 2022: *Assessment of the effectiveness of liquid hot water and steam explosion pretreatments of fast-growing poplar (Populus trichocarpa) wood*, Wood Sciences and Technology, 56, 1, DOI:10.1007/s00226-021-01350-1, IF 2,109

Szadkowska D., Auriga R., Lesiak A., Szadkowski J., Marchwicka M., 2022: *Influence of Pine and Alder Woodchips Storage Method on the Chemical Composition and Sugar Yield in Liquid Biofuel Production*, 117, 63-73, DOI:10.3390/polym14173495, IF 4,967

2021

Szadkowska, D., Zawadzki, J., Kozakiewicz, P., & Radomski, A., 2021: *Identification of Extractives from Various Poplar Species*. Forests, 12, 17. <http://doi.org/10.3390/f12050647>, IF 2,221

Krutul, D., Radomski, A., Antczak, A., Drożdżek, M., Kłosińska, T., Szadkowska, D., Zawadzki, J., 2021: *Influence of the environmental pollution on the distribution and polymerization degree of cellulose in bark and wood from scots pine (Pinus sylvestris L.) stem.*, Wood Research, 2, 66, 203–210. <http://doi.org/10.37763/wr.1336-4561/66.2.203210>, IF 0,688

Roman, K., Barwicki, J., Hryniewicz, M., Szadkowska, D., & Szadkowski, J. (2021). *Production of Electricity and Heat from Biomass Wastes Using a Converted Aircraft Turbine AI-20*. Processes, 9, 2, 1–15. <http://doi.org/10.3390/pr9020364>, IF 2,753

Betlej I., Andres B., **Szadkowska D.**, Krajewski K. J., Ościłowska A., 2021: *Fungicidal Properties of the Medium from SCOPY Microorganism Cultivation in Saturated Wood against Coniophora puteana Fungus*, Bioresources, 16, 1, 1287-1295, <http://doi.org/10.15376/biores.16.1.1287-1295>, IF 1,409

2020

Szadkowska D., Szadkowski J., 2020: *The chromatographic analysis of extracts from poplar (Populus sp.) - Laying program GC-MS*, Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, 111, 32-36

Lisiecka E., Lesiak A., Szadkowski J., **Szadkowska D.**, Radomski A., Andres B., 2020: *The influence of Aspergillus Niger on the wood content of Populus sp.*, Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, 110, 140-147

Szadkowski J., **Szadkowska D.**, 2020: *The Analysis of the distribution of available mesopores in cellulosic pulp, using Inverse Size Exclusion Chromatography-ISEC*, Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology, 109, 103-108

Balicka A., **Szadkowska D.**, 2020: *XRF analysis of heavy metals contents in oak wood (Quercus robur L.)*, Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology,

2017

Szadkowski J., Radomski A., Antczak A., **Szadkowska D.**, Lewandowska A., Marchwicka M., Kupczyk A., 2017: *Wydajność procesów hydrolizy i fermentacji w technologii wytwarzania bioetanolu z drewna topoli (Populus sp.)*, Przemysł Chemiczny, tom 96, (3) s. 518-520, **IF 0,367**

2016

Szadkowska D., Radomski A., Derewiaka D., Lewandowska A., Drożdżek M., Zawadzki J., Pietrykowski M., Zielenkiewicz T. 2016: *Analiza chromatograficzna substancji ekstrakcyjnych pozyskanych z różnych odmian topoli jako potencjalnych inhibitorów hydrolizy enzymatycznej*, Przemysł chemiczny, tom 95, (11) s. 2179-2182, **IF 0,367**